

02/26/14 Agenda

- Warm Up
- Retake Information
 - Remediation Packet is on my web site
 - It's due by March 3rd (next Monday)
 - Complete it, Reflection Sheet, & Missing Homework
 - You have 1 week after submitting it to take your retest
- Review Homework
 - Worksheet 7.3 - Multiplying Power to a Power
- Review Sections 7.2 - 7.3
- **QUIZ TOMORROW!!!**
- Worksheet 7.2-7.3 Review

Warm Up - Homework out!



Put your name on a slip of paper.

Simplify:

$$\begin{aligned} ((-5)^2)^5 &= (-5)^{10} \\ &= 9,765,625 \end{aligned}$$

$$\begin{aligned} (3 \cdot 5)^2 &= (15)^2 \\ 3^2 \cdot 5^2 &= 225 \end{aligned}$$

$$(4yz)^3$$

$$\begin{aligned} 4^3 y^3 z^3 \\ 64 y^3 z^3 \end{aligned}$$

$$(-3a^4)^3$$

$$\begin{aligned} (-3)^3 a^{12} \\ -27 a^{12} \end{aligned}$$

Sections 7.2 - 7.3 Review

Targets 7A & 7B

February 26, 2014

Summary of Rules ... so far:

Multiplying Powers With the Same Base:

$$a^m \cdot a^n = a^{m+n}$$

Add the exponents

$$x^2 \cdot x^5 = x^{2+5} = x^7$$

Raising a Power to a Power:

$$(a^m)^n = a^{m \cdot n}$$

Multiply the exponents

$$(x^3)^2 = x^3 \cdot x^3 = x^{2 \cdot 3} = x^6$$

Raising a Product to a Power:

$$(ab)^m = a^m \cdot b^m$$

Raise each factor to the power and multiply.

$$(abz)^3 = a^3 b^3 z^3$$

$$\left(\underline{7} \underline{q}^{\frac{4}{3}} \cdot \underline{6} \underline{r}^{\frac{3}{5}} \right) \left(\underline{7} \underline{q}^{\frac{1}{3}} \cdot \underline{6} \underline{r}^{\frac{1}{5}} \right)$$

7.6.7.6

$$1764 q^{\frac{4}{3} + \frac{1}{3}} r^{\frac{3}{5} + \frac{1}{5}}$$

$$1764 q^{\frac{5}{3}} r^{\frac{4}{5}}$$

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$$\left(2^2 \cdot \boxed{(2^2)^3} \right)^2$$

$$\left(2^2 \cdot 2^6 \right)^2$$

$$\underline{2^4} \cdot \underline{2^{12}} = 2^{16}$$